



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: **06123739 A**(43) Date of publication of application: **06.05.94**

(51) Int. Cl.

**G01N 33/531****G01N 21/64****G01N 33/543**(21) Application number: **04272754**(71) Applicant: **DAIKIN IND LTD**(22) Date of filing: **12.10.92**(72) Inventor: **HASEGAWA MASANORI  
YAMASHITA KAORI****(54) BLOCKING AGENT FOR IMMUNOASSAY AND  
IMMUNITY MEASURING APPARATUS****(57) Abstract:**

**PURPOSE:** To increase a nonspecific adsorption exclusion effect and to obtain a high immunity measuring signal by using a blocking agent which contains a fluorine-based surface-active agent.

**CONSTITUTION:** A reaction tank 2 which is provided with a prism 1a at one end part and which uses one face 1b of a slab-type light waveguide 1 as the bottom face is formed integrally. Antibodies 3a are fixed to the face 1b, and a fluorine-based surface-active agent 4 as a blocking agent for immunoassay is adsorbed to residual regions excluding local regions in which the antibodies 3a have been fixed. A beam of measuring light from a light source is guided to an incident and radiant face on the prism 1a through a dichroic mirror 5, and it is transmitted through the slab-type light waveguide 1 as a beam of total reflection light. Then, a solution under test is injected into the reaction tank 2, antigens 3b in the solution are accepted by the antibodies 3a which have been immobilized. Then, the solution under test is discharged, a reagent which contains labeling antibodies 3a labeled by labeling fluorescent substances 3d is injected, and the labeling antibodies 3c are accepted by the antigens 3b.

